

Styrolution PS 5400/5401 HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Good ESCRHigh ImpactLow gloss (matte finish)USP Class VI certifiedUL Classification 94 HBInformation provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-54005401-HIPS.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-------------|
| Density | 1.04 g/cc | 0.0376 lb/in ³ | ASTM D 792 |
| Linear Mold Shrinkage | 0.0040 - 0.0070 cm/cm | 0.0040 - 0.0070 in/in | ASTM D 955 |
| Melt Flow | 3.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 3.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D 1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|------------|
| Hardness, Rockwell L | 50 | 50 | ASTM D 785 |
| Tensile Strength, Yield | 20.3 MPa | 2950 psi | ASTM D 638 |
| Elongation at Break | 55 % | 55 % | ASTM D 638 |
| Tensile Modulus | 1.86 GPa | 270 ksi | ASTM D 638 |
| Flexural Strength | 41.6 MPa | 6030 psi | ASTM D 790 |
| Flexural Modulus | 1.86 GPa | 270 ksi | ASTM D 790 |
| Izod Impact, Notched | 1.39 J/cm | 2.60 ft-lb/in | ASTM D 638 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|-------------------------|-------------------------|----------------------|
| CTE, linear | 90.0 µm/m-°C | 50.0 µin/in-°F | ASTM D 696 |
| Vicat Softening Point | 100 °C @Load 1.02 kg | 212 °F @Load 2.25 lb | 120°C/h; ASTM D 1525 |
| Flammability, UL94 | HB | HB | |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|---------------------------------|
| Gloss | 15 % | 15 % | Specular Gloss, 60°; ASTM D 523 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | ^{2.5} Metric | ^{2.5} English | Comments |
|-----------------------|---|---|------------|
| Dielectric Constant | @Thickness 1.00 mm, Frequency 1.00e+6 Hz | @Thickness 0.0394 in, Frequency 1.00e+6 Hz | ASTM D 150 |
| Dielectric Strength | 15.7 kV/mm | 400 kV/in | ASTM D 696 |

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